

United States Patent and Trademark Office

UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address: COMMISSIONER OF PATENTS AND TRADEMARKS Washington, D.C. 20231 www.uspto.gov

APPLICATION NO.	F	ILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/608,302		06/30/2000	Gregory Michael Wilson	MEMC-98-4650(2293)	9819
321	7590	05/17/2002			
02		RS LEAVITT AN	EXAMINER		
ONE METR 16TH FLOO		AN SQUARE	KUNEMUND, ROBERT M		
ST LOUIS, I	ST LOUIS, MO 63102				
,			ART UNIT	PAPER NUMBER	
				1765	11
			Da	DATE MAILED: 05/17/2002	2

Please find below and/or attached an Office communication concerning this application or proceeding.

		Application No.	Applicant(s)				
		09/608,302	WILSON ET AL.				
	Office Action Summary	Examin r	Art Unit				
		Robert M Kunemund	1765				
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply							
A SHO THE N - Exten after: - If the - If NO - Failur - Any re	DRTENED STATUTORY PERIOD FOR REPL MAILING DATE OF THIS COMMUNICATION. Issions of time may be available under the provisions of 37 CFR 1. SIX (6) MONTHS from the mailing date of this communication. period for reply specified above is less than thirty (30) days, a reperiod for reply is specified above, the maximum statutory period to teply within the set or extended period for reply will, by statutely received by the Office later than three months after the mailing dipatent term adjustment. See 37 CFR 1.704(b).	136(a). In no event, however, may a reply be timely within the statutory minimum of thirty (30) day will apply and will expire SIX (6) MONTHS from e, cause the application to become ABANDONE	mely filed ys will be considered timely. n the mailing date of this communication. ED (35 U.S.C.§ 133).				
1)⊠	Responsive to communication(s) filed on 28	February 2002 .					
2a) <u></u> □	This action is FINAL . 2b)⊠ T	his action is non-final.					
3)□	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.						
Dispositi	on of Claims						
4) 🖾	Claim(s) 1-17 is/are pending in the application	n.					
	4a) Of the above claim(s) is/are withdra	awn from consideration.					
5)	Claim(s) is/are allowed.						
6)⊠	Claim(s) <u>1-17</u> is/are rejected.						
7)	Claim(s) is/are objected to.						
8)□	Claim(s) are subject to restriction and/	or election requirement.					
Applicati	on Papers						
9) The specification is objected to by the Examiner.							
10) 🗌 -	The drawing(s) filed on is/are: a)☐ acce						
4 A) 🗔 -	Applicant may not request that any objection to the						
11)	The proposed drawing correction filed on		oved by the Examiner.				
If approved, corrected drawings are required in reply to this Office action.							
12) The oath or declaration is objected to by the Examiner.							
=	Inder 35 U.S.C. §§ 119 and 120 Acknowledgment is made of a claim for foreign	an priority under 35 LLS C & 110/	a)_(d) or (f)				
13) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of:							
a)ر	,	nts have been received					
	 Certified copies of the priority documents have been received. Certified copies of the priority documents have been received in Application No 						
	3. Copies of the certified copies of the prior						
* 5	application from the International B See the attached detailed Office action for a lis	ureau (PCT Rule 17.2(a)).	_				
14) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application).							
 a) ☐ The translation of the foreign language provisional application has been received. 15)☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121. 							
Attachmen	t(s)						
2) Notic	e of References Cited (PTO-892) e of Draftsperson's Patent Drawing Review (PTO-948) nation Disclosure Statement(s) (PTO-1449) Paper No(s)	/ 5) Notice of Informal	ry (PTO-413) Paper No(s) Patent Application (PTO-152)				
S. Patent and To	rademark Office						

Application/Control Number: 09/608,302

Art Unit: 1765

DETAILED ACTION

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

This application currently names joint inventors. In considering patentability of the claims under 35 U.S.C. 103(a), the examiner presumes that the subject matter of the various claims was commonly owned at the time any inventions covered therein were made absent any evidence to the contrary. Applicant is advised of the obligation under 37 CFR 1.56 to point out the inventor and invention dates of each claim that was not commonly owned at the time a later invention was made in order for the examiner to consider the applicability of 35 U.S.C. 103(c) and potential 35 U.S.C. 102(e), (f) or (g) prior art under 35 U.S.C. 103(a).

Claims 1 to 15 and 18 to 20 are rejected under 35 U.S.C. 103(a) as being unpatentable over Falster (PCT 38675) et al or Huber et al both in view of Aswad (Wo 99/03138)

The Falster et al and Huber et al references teach a method and apparatus for denuding a silicon wafer. A silicon wafer is placed in a heating chamber and heated to temperatures above 1175° c. The wafer is then cooled to temperatures below 800 °c at cooling rates, which can vary and are 10°c/sec or higher, note Falster pages 14-15, Huber et al entire reference. The sole difference between the instant claims and the prior art is the removal of the heated wafer to another chamber. However, the Aswad

Application/Control Number: 09/608,302

Art Unit: 1765

reference teaches moving heated wafer from one chamber to another via a Bernoulli wand, note entire reference. It would have been obvious to one of ordinary skill in the art to modify the Falster et al and Huber et al references by the teachings of the Goodwin et al reference to transfer the heated wafer in order to place the wafer in a cooling only chamber increasing control over the wafer.

Claims 16 and 17 are rejected under 35 U.S.C. 103(a) as being unpatentable over Falster (PCT 38675) et al or Huber et al both in view of Aswad.

The Falster et al, Huber et al and Aswad references are relied on for the same reasons as stated, supra, and differ from the instant claims in the heat source. However, in the absence of unobvious results, it would have been obvious to one of ordinary skill in the art to determine through routine experimentations the optimum, operable heating means in the Falster et al and Huber et al references in order to uniformly heat the wafer creating uniform properties.

Response to Applicants' Arguments

Applicant's arguments with respect to claims 1 to 17 have been considered but are moot in view of the new ground(s) of rejection.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Robert M Kunemund whose telephone number is 703-308-1091. The examiner can normally be reached on 8 hours.

Art Unit: 1765

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Ben Utech can be reached on 703-308-3636. The fax phone numbers for the organization where this application or proceeding is assigned are 703-305-3599 for regular communications and 703-305-3599 for After Final communications.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is 703-308-0651.

RMK May 10, 2002

> RUBERT KUNEMUND PRIMARY PATENT EXAMINER A.U. 1176/

Page 4